## AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listing, of claims in the application:

## Listing of Claims:

- 1-192 (Cancelled)
- 193. (Currently Amended) A method of <u>significantly</u> increasing recovery of radioactivity from a reaction that produces a radiopharmaceutical composition <u>of limited solubility</u> either comprising:

adding benzyl alcohol to a reaction mixture that produces the radiopharmaceutical composition of limited solubility: or

reacting a radionuclide with a chelator, to form a radiolabeled chelate of limited solubility, and reacting the radiolabeled chelate with a stabilizer solution comprising benzyl alcohol.

- 194. (Previously Presented) A method according to claim 193, wherein the stabilizer solution further comprises ascorbic acid or a pharmaceutically acceptable salt thereof or EDTA.
- 195.-213. (Cancelled)
- 214. (Previously Presented) A method of claim 193, wherein the radiopharmaceutical composition comprises:
  - a. a diagnostic or therapeutic radionuclide complexed with a metal chelator;
  - b. an optional linking group; and
  - c. a targeting molecule.
- 215. (Previously Presented) A method of claim 214, wherein the radiopharmaceutical composition comprises:
  - a compound of the general formula:

M-N-O-P-O

wherein

M is a metal chelator complexed with a radionuclide:

N is 0, an alpha amino acid, a non-alpha amino acid, or other linking group:

O is an alpha amino acid, or a non-alpha amino acid;

P is 0, an alpha amino acid, a non-alpha amino acid, or other linking group; and

Q is a targeting peptide;

wherein at least one of N, O or P is a non-alpha amino acid with a cyclic group, complexed with a radionuclide.

216. (Previously Presented) A method of claim 214, wherein the radiopharmaceutical composition comprises:

a compound of the general formula:

## M-N-O-P-O

wherein

M is a metal chelator complexed with a radionuclide;

N is 0, an alpha amino acid, a substituted bile acid, or other linking group;

O is an alpha amino acid, or a substituted bile acid;

P is 0, an alpha amino acid, a substituted bile acid, or other linking group;

and

Q is a targeting peptide;

wherein at least one of N, O or P is a substituted bile acid, complexed with a radionuclide.

217. (Currently Amended) A method of claim 215, wherein the radiopharmaceuteal radiopharmaceutical composition comprises a compound of the formula:

complexed with a radionuclide.

218. (Previously Presented) A method of claim 216, wherein the radiopharmaceutical composition comprises a compound of the formula:

complexed with a radionuclide.

219. (Previously Presented) The method of claim 193, wherein the chelator is selected from the group consisting of DTPA, DOTA, DO3A, HP-DO3A, PA-DOTA, MeO-DOTA, MX-DTPA, EDTA, TETA, EHPG, HBED, NOTA, DOTMA, TETMA, PDTA, TTHA, LICAM, MECAM, CMDOTA, PnAO, oxa-PnAO, N,N-dimethylGly-Ser-Cys; N,N-dimethylGly-Thr-Cys; N,N-diethylGly-Ser-Cys; N,N-dimethylGly-Ser-Cys-Gly; N,N-dimethylGly-Ser-Cys-Gly; N,N-dimethylGly-Thr-Cys-Gly: N,N-diethylGly-Ser-Cys-Gly; and N,N-dibenzylGly-Ser-Cys-Gly.

- 220. (Previously Presented) The method of claim 214, wherein the targeting molecule is a targeting peptide.
- 221. (Currently Amended) The method of claim 220, wherein the targeting peptide is selected from the group consisting of LHRH, insulin, oxytocin, somatostatin, NK-1, VIP, Substance P, NPY, endothelin A, endothelin B, bradykinin, interleukin-1, EGF, CCK, galanin, MSH, Lanreotide, Octreotide, Maltose, arginine-vasopressin and analogs and derivatives thereof.
- 222. (Cancelled)
- 223. (Previously Presented) The method of claim 220, wherein the targeting molecule is a GRP receptor targeting molecule or an analog thereof.
- 224. (Previously Presented) The method of claim 220, wherein the targeting molecule is a GRP receptor targeting molecule or an analog thereof.
- 225. (Previously Presented) The method of claim 223, wherein the GRP receptor targeting molecule is an agonist or a peptide which confers agonist activity.
- 226. (Previously Presented) The method of claim 224, wherein the GRP receptor targeting molecule is bombesin or an analog thereof.
- 227. (Previously Presented) The method of claim 193, wherein the radionuclide is selected from the group consisting of <sup>99m</sup>Te, <sup>51</sup>Cr, <sup>67</sup>Ga, <sup>68</sup>Ga, <sup>47</sup>Se, <sup>167</sup>Tm, <sup>141</sup>Ce, <sup>123</sup>I, <sup>125</sup>I, <sup>131</sup>I, <sup>18</sup>F, <sup>11</sup>C, <sup>15</sup>N, <sup>111</sup>In, <sup>168</sup>Yb, <sup>175</sup>Yb, <sup>140</sup>La, <sup>90</sup>Y, <sup>88</sup>Y, <sup>86</sup>Y, <sup>153</sup>Sm, <sup>166</sup>Ho, <sup>165</sup>Dv, <sup>166</sup>Dv, <sup>62</sup>Cu, <sup>64</sup>Cu, <sup>67</sup>Cu, <sup>97</sup>Ru,

<sup>103</sup>Ru, <sup>186</sup>Re, <sup>188</sup>Re, <sup>203</sup>Pb, <sup>211</sup>Bi, <sup>212</sup>Bi, <sup>213</sup>Bi, <sup>214</sup>Bi, <sup>225</sup>Ac, <sup>211</sup>At, <sup>105</sup>Rh, <sup>109</sup>Pd, <sup>117m</sup>Sn, <sup>149</sup>Pm, <sup>161</sup>Tb, <sup>177</sup>Lu, <sup>198</sup>Au and <sup>199</sup>Au and oxides or nitrides thereof.

- 228. (Previously Presented) The method of claim 193 wherein the stabilizer solution further comprises a water soluble organic compound containing selenium in the +2 oxidation state.
- 229. (Previously Presented) The method of claim 227, wherein the water soluble organic compound containing sclenium in the +2 oxidation state is slected from the group consisting of sclenomethionine, sclenocysteine and derivatives thereof.
- 230. (Previously Presented) The method of claim 228, wherein the radiopharmaceutcal composition comprises a compound of the formula:

or a compound of the formula:

complexed with a radionuclide.